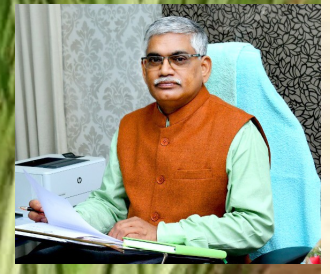




Fortnight Focus

- Events
- Education
- Research
- Extension
- General



From Vice-Chancellor's Desk

Medicinal & Aromatic Plants - Natural Health & Wealth

Higher plants are solar powered biochemical factories which manufacture what they need to survive from air, water, minerals and their energy from sunlight. Many species of Medicinal & Aromatic plants biosynthesize and accumulate extractable organic substances in quantities sufficient to be economically useful for various scientific, technological and commercial applications. Plant derived natural products have been and will continue to be extremely important to mankind as source of drugs, foods, botanicals, fragrances, essences and other raw materials.

At Dr.YSR Horticultural University under ICAR-AICRP Medicinal & Aromatic Plants and Betelvine research and demonstrations are being conducted in 19 medicinal & aromatic plants (Barresugandhipala, Bavanchalu, Betelvine, Chengalvacostu, Giligitcha, Makoi / Kamanchi, Nallaum-metha, Nalleru, Nelavemu, Sabja, Sankapushpi, Satavari, Tippateega, Tulasi, TellaUmmetha TellaUm-metha, Uttareni, Vasa /Bach / Sweet flag, Velvette bean/Doolagondi, Japanese mint). The university has released a Bach/Sweet Flag /Vasa (*Acorus calamus*) variety "Swarna Swara" during the year 2020. Research priorities towards genetic manipulation, farmers friendly extraction techniques, value added products and wild collection of Medicinal & Aromatic Plants etc. are being taken up in this university.

Dr T.Janakiram
Vice-Chancellor

The Events

Dr.B.R.Ambedkar Vardhanthi

Dr.B.R.Ambedkar Vardhanthi was commemorated at Administrative office, all the constituent colleges, Research Stations and Krishi Vigyan Kendras of Dr.YSRHU on 6 December 2020. Dr T.Janakiram, Vice-Chancellor paid floral tributes to Father of Indian Constitution, Dr.B.R.Ambedkar.



Sri Potti Sreeramulu Vardhanthi



Sri Potti Sreeramulu vardhanthi was commemorated at Administrative office, all the constituent colleges, Research Stations and Krishi Vigyan Kendras of Dr.YSRHU on 15 December 2020. Dr T.Janakiram, Vice-Chancellor, university officers and staff paid floral tributes to Sri Potti Sreeramulu.

Education

National Agricultural Education Day

Indian Council of Agricultural Research has designated 3rd December as “Agricultural Education Day” to commemorate the birth anniversary of first President of Independent India and former Union Minister of Agriculture, Bharat Ratna, Dr. Rajendra Prasad. In this context, the Agricultural Education Day, was celebrated at ZP High School, Prakasaraopalem and Z. P. High School Nagavaram by CoH, Venkataramannagudem and Anantharajupeta respectively by involving 8th to 10th class students of the school, to create awareness on importance and opportunities in Agriculture and Horticulture. Hon’ble Vice-Chancellor - Dr. T. Janakiram and Dean of Horticulture - Dr. M.L.N. Reddy, Dr. YSRHU joined the program by virtual mode and addressed the gathering and appreciated the students and praised their talents. Elocution and Essay writing competitions were conducted and distributed prizes to the winners of the students.



Hon’ble Vice-Chancellor - Dr. T. Janakiram and Dean of Horticulture - Dr. M.L.N. Reddy, Dr. YSRHU joined the program by virtual mode and addressed the gathering and appreciated the students and praised their talents. Elocution and Essay writing competitions were conducted and distributed prizes to the winners of the students.

Verification for combined UG admission applications under farmer’s quota

Verification for combined UG admission applications under farmers quota was held from 5th December to 9th December and 14th to 15th December in two spells at CoH, Venktaramannagudem. A total of 128 applications were verified and updated in the admission portal which was jointly organized by ANGRAU, Lam, Guntur and AP online.



Counselling for PG and Ph.D programme

Dr. YSR Horticultural University conducted the counselling for PG admissions into M.Sc. and Ph.D. for the academic year 2020-21 on 15-12-2020 and 16-12-2020 at College of Horticulture, Venkataramanagudem.



NSS Activities



The activities related to Fit India thematic campaign was organized virtually on 1 December 2020 with all the NSS volunteers of the college and suggested and guided them to prepare videos of 10 seconds duration on creating awareness about importance of being fit for all age groups of people. The NSS cell organized the 'Fit India Prabhatbheri' in the ZP High school in adopted village, Nagavaram, Chitvelmandal, Kadapa dist. on 5 December 2020. Explained the importance of physical and mental fitness to all age groups of people and suggested to practice atleast half an hour in a day for a healthy life with the caption of 'Fitness ka dose- AadagantaRoj'. The school children were encouraged to practice some daily exercises and yogasanas by the College physical Education Teacher.

Research

Webinar

MRS, Nuzvid in collaboration with Department of Horticulture organised a virtual training programme to mango growers of Vizianagaram on "Measures to be taken during Mango flowering and fruiting" on 14 December 2020 with the permission of Director of Research, Dr.YSRHU. In this meeting nearly 350 farmers have participated through RBKs of Kothavalasa mandal and Gajapathinagaram mandals and other mango growing mandals of Vizianagaram district and 63 farmers have participated through Zoom direct link. Clarified their doubts on present condition of mango flowering and its protection aspects. This programme was coordinated by Dr R.V.S.K.Reddy, Director of Research and Dr B.K.M.Lakshmi, Senior Scientist (Plant Pathology) & Head, MRS, Nuzvid.



Extension Activities

Webinar

Dr YSRHU-Farmers Advisory Cell conducted online state-level webinar on "Dry Flowers Technologies for Income Generation" on 4 December 2020 in coordination with ICAR-IARI and Dr.Y.S.Parmar University of Horticultural Sciences & Forestry, Solan under the Chairmanship of Dr T.Janakiram, Vice-Chancellor. University Officers and faculty of Dr YSRHU participated in the webinar and interacted after the presentations with participants. This programme was coordinated by Dr.B.Srinivasulu, Director of Extension.

World Soil Day

“World Soil Day” was celebrated with a theme “Keep Soil Alive, Protect Soil Biodiversity” on 5 December, 2020 in all 42 institutes (Krishi Vigyan Kendras, Horticultural Research Stations, Colleges of Horticulture and Horticultural Polytechnics including affiliated Colleges and Polytechnics) under Dr.YSRHU.



5 DECEMBER 2020

World Soil Day

Keep soil alive,
protect soil biodiversity

Organised awareness programmes/ interaction meetings by highlighting the status of soil in the district, measures to improve soil health, cropping systems for enhancing soil fertility etc, in 42 adopted villages by 42 institutes under “Vice-Chancellor to Village” program “Mana Gramam – Mana Viswavidyalayam”.



On this occasion Farmers Advisory Cell of Dr.YSRHU also conducted a webinar on “Protect Soil Health” during afternoon of 5 December, 2020 for the benefit of farmers on soil health and strategies for enhancing soil fertility delivered by Dr.P.Surendra Babu, Principal Scientist & Head, AICRP-Micronutrients on Soil & Plants, PJTSAU, Rajendranagar.



Vice-Chancellor to Village Activities

On 9 December 2020, Hon'ble Vice chancellor, Dr T.Janakiram visited Pandirimamidikota village of Maredumilli mandal adopted village of KVK, Pandirimamidi under 'Vice chancellor to Village programme'. Hon'ble vice chancellor Dr.T. Janaki Ram observed all the native germplasm exhibited in the stall i.e. more than 35 types followed by interactive session with villagers and addressed about the activities of Dr.YSRHU activities to be carried out at village level for



the coming seasons, stressed about the importance of nutria gardening etc. and also provided poultry birds and kitchen garden seed kits to tribals. Inaugurated the smoke chamber provided to rubber FPO group i.e. Girijina Rabbaru Sankshema Sangham of Pandirimamidikota village. Also observed the tapping in rubber and functioning of rubber rollers, processing equipment's provided to rubber FPO group. Hon'ble Vice-Chancellor inaugurated "Rubber Processing Smoke Chamber" created by KVK, Pandirimamidi at adopted village Pandirimamidikota. Dr.B. Srinivasulu, Director of Extension, Dr.RVSK Reddy, Director of Research, Dr.P.LalithaKameswari, Senior Scientist & Head, Scientists of KVK, Pandirimamidi, Sri Salman Raj, Extension Officer, Central Rubber Board, Rampachodavaram and 65 farmers have participated.

Also on 9 December 2020, Dr T.Janakiram, Vice-Chancellor participated in a Farmers interaction meeting at RBK, Tamarapalli village of Rampachodavaram mandal an adopted village of HRS, Pandirimamidi under "Vice-Chancellor to Village" program and distributed coconut seedlings to farmers.

As part of VC to Village programme, about 56 students and teachers from ZPP High School, Prakasaraopalem visited the College of Horticulture, VR Gudem on 7 December 2020. They were shown different vegetable, flower, fruit and spice crops cultivated in the field and explained about their nutritional and economic importance. Further they visited protected cultivation of vegetables, spices and flower crops and observed the crops which are cultivated under protected structures.



As a part of "Vice-Chancellor to Village Program", a team of faculty of CoH, Anantharajupeta conducted method demonstration on "Mushroom Cultivation" at Nagavaram (adopted village) and also distributed mushroom spawn to the identified woman farmers on 5 December 2020.

Scientists of Horticultural Research Station, Kovvur visited the adopted village Ravurupadu of Tallapudi mandal on 5 December 2020 and planted the coconut seedlings in the school premises.



On 15 December 2020, Scientists of HRS, Anantharajupeta visited adopted village VPR Kandrika and Thadivandlapalli and organized a meeting regarding modern cultivation aspects in papaya and selected sc farmers under SC-SUBPLAN were explained about the uses of vermicompost at vermicompost unit established at VPR kandrika.

On 2 December 2020, KVK, Periyavaram conducted awareness program on “Nutrigarden” to women farmers in the adopted village C.C.Kandriga as part of ‘Vice chancellor to Village programme’. The farming women are created with awareness on importance of nutri garden and its establishment to meet the recommended dietary allowances of vegetables, fruits and leafy vegetables in the diet as they are rich sources of vitamins and minerals, protect us against diseases and reduce micro nutrient deficiencies among women and children in rural areas. Dr B.Vijayasree, Research Associate (Home Science) coordinated the programme.



Dr R.Nagaraju, Principal Scientist (Horticulture) & Head and other staff of HRS, Anantharajupeta along with teachers and high school children have taken up planting of *Polyalthia longifolia* seedlings at VPR Kandriga (adopted village) at Rythu Bharosa Kendram and also at Government high school building under “Vice-Chancellor to Village” Program on 5 December 2020.

Dr.YSRHU Year of Coconut 2020-21

On 9 December 2020, Hon’ble Vice chancellor, Dr.YSRHU, Dr T. Janakiram visited Pandirimamidikota village of Mare-dumilli mandal, adopted village of KVK, Pandirimamidi and interacted with all the rubber growers, rural youth & planted coconut seedlings as a part of “Dr.YSRHU – Year of Coconut 2020” followed by planting of coconut seedlings by DrB.Srinivasulu, Director of Extension, Dr R.V.S.K Reddy, Director of Research and Dr P.LalithaKameswari, Senior Scientist & Head, KVK, Pandirimamidi. In this programme, KVK Scientists, 32 farmers have participated.



Frontline Demonstrations

On 11 December 2020, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited turmeric fields for follow up under FLD at Settivaripalli village of Mydukur mandal. Explained about fertilizer management and disease management during the rhizome development stage.



On 14 December 2020, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited tomato fields for follow up under FLD at Sunkulagaripalli village of Mydukur mandal. Scientist explained about fertilizer management and disease management during flowering and fruiting stage. Observed septoria leaf spot in tomato and suggested to spray Mancozeb @ 0.2% to manage the disease.

On 15 December 2020, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted a follow up visit for FLD on “Integrated Nutrient management in Turmeric for correcting the nutrient deficiency” at Settivaripalli village of Mydukur mandal. Identified leaf spot and suggested spraying of Chlorothalonil @ 2.0 gm /litre for controlling the disease.



On 14 December 2020, Dr P. Lalitha Kameswari, Senior Scientist & Head, Sri Bhanumurthy K.C, Scientist (Horticulture), KVK, Pandirimamidi and Sri Ramesh, Horticulture officer, Rampachodavaram provided marigold var. Arka banagara-2 rooted cuttings to farmers of Chinageddhada and Indukurupeta village of Rampachodavaram and Devipatnam mandals under Front line demonstration i.e. Demonstration of marigold var. Arka bana-

gara-2.

On Farm Trials

On 12 December 2020, Dr.P.Lalitha Kameswarai, Senior Scientist & Head and P.Raja Sekhar, Scientist (SS&AC) has visited trial plots under On Farm Trial on “Assessment of Novel Organic Liquid nutrients in Paddy” at Bandapalli village of Rampachodavaram mandal and observed the crop at harvesting stage and recorded the yield attributing parameters in control and trial plots. Also made diagnostic visit to paddy field where lodging occurred due to Nivar cyclone and suggested the farmers to take grain protection measures in order to avoid early sprouting.



On 1 December 2020, Shri G. Sandeep Naik, Scientist (Plant Pathology), Dr V.Nagarjuna, Research Associate (Soil Science) and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta, visited blackgram fields for followup under OFT at Madirepalli village of Duvvur mandal. Scientists observed powdery mildew disease and suggested to spray Myclobutanil @ 0.05% for disease

management.

On 1 December 2020, Dr V.Yugandhar, Research Associate (Horticulture) and Shri G.Sandeep Naik, Scientist (Plant Pathology), KVK, Vonipenta visited onion fields for follow up under OFT at Madirepalli village of Duvvur mandal. During the visit scientists collected data and explained the farmers about fertilizer management and disease management during the initial plant development stage.



On 1 December 2020, Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted follow-up visit for OFT on “Introduction of high yielding variety K9” at Madirepalli village of Duvvur mandal. The scientists explained fertilizer and water management and suggested the application of Quizalofop ethyl @ 200 ml per acre for controlling the weeds.

On 14 December 2020, technical team of KVK, Vonipenta, initiated nutri-gardens under intercropping system in papaya at Musalinayanapalli village of Mydukur mandal. Scientist explained benefits of intercropping systems in different horticultural orchards, financial benefit as well as pest, viral and bacterial diseases management with vegetable and flower crops as trap crops and nitrogen fixation by planting pulse crops.



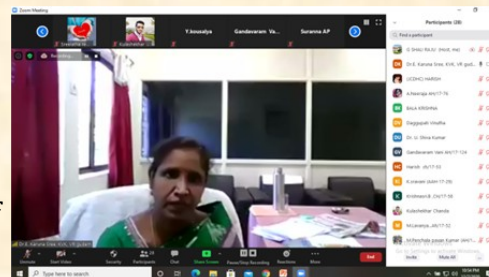
Training Programmes

On 4 December 2020, KVK, Venkataramannagudem conducted training program on “Importance and cultivation of improved fodders in dairy farming” to farmers of Tadepalligudem mandal and distributed CoFS 29 fodder seed to farmers under SC-Sub plan.



Dr K.Venkata Subbaiah, Scientist (Horticulture), KVK, Venkataramannagudem attended as resource person to “Landscape Gardening and Urban greening” skill training programme from 7 to 9 December 2020 to Vijayawada Municipal Corporation (VMC) Gardeners. Delivered lectures on propagation techniques in ornamentals, nutrient management, pest and disease management in ornamentals.

On 8 December 2020, KVK, V.R.Gudem conducted online training programme on “Improved production technology in maize”. Dr K.Phani Kumar, Senior Scientist (Entomology), Maize Research Station, Vijayarai, ANGRAU participated as resource person and explained about improved production technology of maize. Shri G.Shaliraju, Scientist (Entomology) coordinated the programme.



KVK, Venkataramannagudem conducted training program on “Integrated Farming Systems for enhancing the income” to the farmers of Vizianagaram District, Andhra Pradesh on 9 December 2020. Dr A.Devivaraprasad Reddy, Scientist (Fishery Science), has explained about the Fisheries based Integrated Farming Systems to the farmers and Dr K. Venkata Subbaiah, Scientist (Horticulture) has explained about the crop production aspects related to vegetables and plantation crops. Shri G.Shaliraju (Entomology) has explained about the crop protection aspects in vegetables and plantation crops. Dr. K.Ananda Rao, Principal Scientist & Head, BRS, V.R.Gudem has explained about the Scientific management of milch animals and goats to the farmers. Farmers were exposed with different technologies and crops which are available in the KVK instructional farm. This program was coordinated by Dr E.Karunasree, Principal Scientist & Head, KVK, VRGudem.

On 11 December 2020, Dr B.Govindarajulu, Principal Scientist (Plant Pathology) & Head and Dr B.Vijayasree, Research Associate (Home Science), KVK, Periyavram conducted awareness program on “Nutrigarden” to Anganwadi teachers of ICDS project, Rapur, SPSR Nellore district. Anganwadi teachers were provided with awareness on importance of nutri garden and its establishment to meet the recommended dietary allowances of vegetables, fruits and leafy vegetables in the diet. Dr B.Govindarajulu acknowledged the participants on importance of Coconut and its nutritional values to promote healthy life and also enlightened on horticultural crops like papaya, acid lime and moringa in every village to promote good nutrition for women and children in rural areas. Later coconut saplings were planted at ICDS-CDPO office. The pamphlet on “Kobbari Poshakalatho Aarogyam” was distributed to the participants.



Dr R. Nagaraju, Principal Scientist (Horticulture) & Head, Dr T. Nagalakshmi, Scientist (Plant Pathology), Dr D.Sridhar, Scientist (Horticulture) and Dr Y.Sharat Kumar Reddy, Scientist (Plant Physiology), HRS, Anantharjupeta and other scientific staff conducted a training and feedback programme under ICAR- SC Sub Plan to the beneficiaries on 3 December 2020 at HRS, Anantharaju-

peta and distributed Battery operated sprayers to the SC farmers.

Dr D.Srinivas Reddy, Senior Scientist (Entomology), CRS, Tirupati attended training and delivered lectures on “Pest and disease management and fertigation in Mango crop” under the scheme APILIP-II for the year 2020-21 at Talapula in Pileru Mandal of Chittoor district on 2 December 2020 organized by Department of Horticulture, Chittoor.



On 15 December 2020, Sri K.C.Bhanumurthy, Scientist (Horticulture), KVK, Pandirimamidi attended a training program on “Nursery management of vegetables in shade net house” as a resource person at ITDA, Chintur. Project officer, ITDA, Chintur, ADH, Rajahmundry, H.O, Rampachodavaram, representatives from Mahindra Top company and 46 farmers have participated

in the program.

On 4 December 2020, KVK, Venkataramannagudem conducted a training program on “Sheep and Goat Rearing” under ARYA project to rural youth of K.Nagampalem and distributed sheep and goat to tribal farmers.



Diagnostic Visits

Diagnostic visit was conducted to newly established poultry farm at Chapalapalle village of Dakkili mandal on 14 December 2020 by Dr P.Manjari, Scientist (Veterinary Science), KVK, Periyavaram and observed bloody filled droppings. The case was diagnosed as Coccidiosis and recommended to administer Amprolium powder @ 30gram/25 litre of drinking water, neodox forte @ 1 gram/ 10 litre water for 4-5 days along with vimeral supplementation @5ml/100 birds. Suggested to follow strict sanitary measures and to provide clean and fresh water for drinking.



On 1 December 2020, Shri G.Sandeep Naik, Scientist (Plant Pathology), Dr V. Yugandhar, Research Associate (Horticulture) and Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited turmeric and onion fields for diagnosis of pests and diseases at Madirepalli village of Duvvur mandal. Observed rhizome rot disease in turmeric and basal rot disease in Onion and suggested drenching with ridomil @ 0.25% to the disease infested and surrounding plants to control the spread of rhizome rot disease and soil drenching with Copper Oxy Chloride @ 0.3% against basal rot disease in Onion.

On 2 December 2020, Shri G. Sandeep Naik, Scientist (Plant Pathology) and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited papaya fields for diagnosis of pests and diseases at Mudireddipalli village of Mydukur mandal. Identified collar rot in papaya field and suggested soil drenching with Copper-Oxy-Chloride @ 0.3% at collar region of disease infested plant for collar rot disease.



On 4 December 2020, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited tomato fields for diagnosis of pest and disease incidence at Papannapalli village of Mydukur mandal. Observed tomato spotted wilt virus infection and recommended removal and destruction of infected plants followed by application of Dimethoate or Methyl-O-demeton @ 0.2% to control the spread of disease.

On 10 December 2020, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited papaya fields for diagnosis of pests and diseases at Musalinayanapalli village of Mydukur mandal. Explained about fertilizer management and suggested application of Acephate @ 1.5 g/litre for control of insect vector spreading the viral disease.



Dr T. Naga Lakshmi, Scientist (Plant Pathology), HRS, Anantharajupeta conducted diagnostic survey in 'NIVAR' cyclone affected vegetable gardens in Lakshmigari palle and Settigunta villages along with Dr Ch.Ruth, Professor, Dr. Arunodayam, Assis. Professor, Plant Pathology CoH and PG students and Observed severe damage due to fusarial wilt, Gummy Stem blight in gourds and *Alternaria* early blight in Tomato on 2 December 2020.

On 11 December 2020, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited papaya fields for diagnosis of pests and diseases at Settivaripalli village of Mydukur mandal. Observed ring spot virus disease and suggested removal and destruction of infected plants followed by spraying with Imidachloprid @ 0.03% or Fipronil @ 0.2 % for controlling of virus transmitting vectors.



On 11 December 2020, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited banana fields for diagnosis of pests and diseases at Thimmayapalli village of Mydukurmandal. Observed sigatoka leaf spot and suggested to spray Chlorothalonil @ 0.2% or Propiconazole @0.1% + mineral oil @ 1%.

On 14 December 2020, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited papaya fields for diagnosis of pests and diseases at Nagasanipalli village of Khajipeta mandal. Identified papaya leaf mosaic disease and suggested removal and destruction of infected plants followed by spraying with Imidachloprid @ 0.3 ml/litre or Fipronil @2 ml/litre for controlling vector transmitting viruses.



On 15 December 2020, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited banana fields for diagnosis of pests and diseases at Vonipenta village of Mydukurmandal. Scientist explained about bunch management techniques, fertilizer management to be followed after bunch emergence and also observed the Sigatoka leaf spot disease and suggested to spray Chlorothalonil @ 0.2% or Propiconazole @0.1%.

A team of faculty Dr R. Ramaiah, Professor (Entomology), Dr V.N.P. Sivarama Krishna, Associate Professor (Horticulture), Dr Arunodayam, Assistant Professor (Plant Pathology), Dr V.V. Padmaja, Assistant Professor (Plant Physiology), CoH, Anantharajupeta visited the flood water inundated villages in and around the Nagavaram revenue village limits and observed banana, chrysanthemum and coconut fields in Alimelumangapuram, Eguvapalli, B. Kammappalli and suggested the measures to protect the crop and its produce from deep submergence and distributed the information on ameliorative life saving measures to be taken in various crops.



Dr Ch. Ruth, Professor (Plant Pathology), Dr Arunodayam, Assistant Professor (Plant Pathology), Dr Sarada, Assistant Professor (Entomology), and Smt. K. Satayakala, TA, CoH, Anantharajupeta visited Tirumalashettipalli village and observed the semi lodged banana fields and suggested suitable remedies to save the remaining crop on 5 December 2020.

Ch. Ruth, Professor (Plant Pathology), T. Nagalakshmi, Scientist (Plant Pathology), Dr K. Arunodhayam, Assistant Professor (Plant Pathology), CoH, Anantharajupeta visited Abbireddypalli village, Kodur mandal, Kadapa district along with PG student of 2019 admit batch on 2 December 2020 and observed gummy stem blight in bottle gourd, bittergourd, ridge gourd, early blight in tomato, mosaic virus in bittergourd in farmer field due to heavy rains on 3 December 2-2020 and suggested remedial measures.



Dr G.Ramanandam, Principal Scientist (Horticulture) & Head, Dr K.Mamatha, Senior Scientist (Horticulture), Dr R.Naga Lakshmi, Senior Scientist (Horticulture) and Dr K.Ravindra Kumar, Scientist (Horticulture), HRS, Kovvur visited bitter gourd, coccinia and tomato fields at Ravurupadu village on 5 December 2020 and suggested to apply biofertilizers to enhance the productivity.

Dr K.Ravindra Kumar, Scientist (Horticulture), HRS, Kovvur visited banana field at Togummi and observed severe potash deficiency in Grand naine plants and rugose spiralling white fly infestation in Godavari ganga coconut plants on 11 December 2020. Advised to spray SOP @ 5 grams/lit along with 1/2 ml gum twice in a week to control the potash deficiency in banana. Recommended to spray 1 ml/litre neem oil along with 20 grams surf per liter to control RSW on coconut.



Dr G.Ramanandam, Principal Scientist (Horticulture) & Head, Dr R.Naga Lakshmi, Senior Scientist (Horticulture), Dr K.Ravindra Kumar, Scientist (Horticulture) and Dr A.Snehalatha Rani, Scientist (Plant Pathology), HRS, Kovvur conducted a diagnostic survey for diseases of banana in Chidipi village and observed 18.75% rhizome rot incidence in Tellachekkerakeli on 15 December 2020. Observed potassium and micro nutrient deficiencies and suggested control measures for rhizome rot, leaf spot and nutrient deficiencies.

Tribal Sub Plan

HRS, Kovvur under AICRP on Fruits organised a farmers meet at Pandirimamidi on 9 December 2020 and distributed plant material of acid lime, mango grafts and other inputs to the tribal farmers under TSP programme by Dr T.Janakiram, Hon'ble, Vice-Chancellor participated as chief guest in the presence of Dr R.V.S.K Reddy, Director of Research, Dr B.Srinivasulu, Director of Extension, Dr B.V.K. Bhagavan, Zonal Research Head, Costal Zone -I.



On Farm Trials

On 12 December 2020, Dr.P.Lalitha Kameswarai, Senior Scientist & Head, P.Raja Sekhar, Scientist (SS&AC) has visited trial plots under On Farm Trial on “Assessment of Novel Organic Liquid nutrients in Paddy” at Bandapalli village of Rampachodavaram mandal and observed the crop at harvesting stage and recorded yield attributing parameters in control and trial plots also made diagnostic visit to paddy field where lodging occurred due to Nivar cyclone and suggested the farmers to take grain protection measures in order to avoid early sprouting.



On 1 December 2020, Shri G. Sandeep Naik, Scientist (Plant Pathology), Dr V.Nagarjuna, Research Associate (Soil Science) and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta, visited Blackgram fields for followup under OFT at Madirepalli village of Duvvurmandal. Scientists observed powdery mildew disease and suggested to spray Myclobutanil @ 0.05% for disease

management.

On 1 December 2020, Dr V.Yugandhar, Research Associate (Horticulture) and Shri G.Sandeep Naik, Scientist (Plant Pathology), KVK, Vonipenta visited onion fields for follow up under OFT at Madirepalli village of Duvvur mandal. During the visit scientist collected data and explained about fertilizer management and disease management during the initial plant development stage.



On 1 December 2020, Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted follow-up visit for OFT on Introduction of high yielding variety K9 at Madirepalli village of Duvvur mandal. Explained about fertilizer and water management and suggested the application of Quizalofop ethyl @ 200 ml per acre for controlling the weeds.

On 14 December 2020 Smt. S.Runjala, Research Associate (Home Science) Dr.V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta, initiated nutri-gardens under intercropping system in papaya at Musalinayanapalli village of Mydukurmandal. Scientist explained about benefits of intercropping systems in different horticulture orchards, financial benefit as well as pest, viral and bacterial diseases controlled by the vegetable and flower crops as trap crops and Nitrogen fixation by raising pulse crops.



General

Meetings

Dr R. Nagaraju, Principal Scientist (Horticulture), HRS, Anantharajupeta attended online webinar on “Status of Mango Exports and Support of APEDA” on 2 December 2020 conducted by Department of Horticulture and APEDA, Hyderabad.

Visits

On 1 December 2020, farmers from Vizianagaram district visited KVK, Venkataramanna gudem in coordination with ARTS NGO. The scientific staff of KVK explained about Cashew cultivation, Nursery, Apiary, Chicks rearing, Disease management of sheep and goat, Waste decomposer application, Vermicompost and Azolla cultivation. This program was coordinated by Dr.T.Vijaya Nirmala, Scientist (Veterinary Science), KVK, VR gudem.



On 4 December 2020, Sri.G. ShaliRaju, Scientist (Entomology), KVK, V.R.Gudem conducted exposure visit to the farmers from Jangam district, Telangana state and explained about the Best Management practices in fruits and vegetable crops and also explained about various demonstration units at KVK, Venkataramannagudem.

Dr M.L.N. Reddy, Dean of PG studies and Dean of Horticulture (FAC) and Dr T.S.K.K Kiranpatro, TO to Dean of Horticulture visited the CoH, V.R.Gudem on 4 December 2020. Visited the PG research plots, instructional farm, protected structures and crops cultivated under structures and given suggestions to adopt new technologies to improve the crop yield, quality and minimizing pest and disease problems. Dr. K. Umajyothi, Associate Dean and teaching staff of CoH, VR Gudem associated the visit.



Publications

S.Sushmitha, A.Sujatha and N.Emmanuel. 2020. Impact of biochemical constituents of host plants on the rugose spiraling whitefly, *Aleurodicus rugioperculatus* martin infestation levels in Andhra Pradesh. Journal of Applied Zoological Researches, 31(1):62-70.

P.Damodar Reddy, A.Sujatha, C.P.Vijji and K.Umajyothi. 2020. Seasonal occurrence of different insect pests of potato crop in Andhra Pradesh. Journal of Applied Zoological Researches. 31(1):71-80

P.Damodar Reddy, A.Sujatha, D.R.Salomi Suneetha and N.Emmanuel. 2020. Influence of biochemical constituents of potato varieties on the incidence of insect pests in Andhra Pradesh. Pest Management in Horticultural Ecosystems. 26(1):63-68

S.Sushmitha, A.Sujatha, N.Emmanuel, K.Uma Krishna and D.R.Salomi Suneetha. 2020. Incidence, intensity and host dynamics of rugose spiraling white fly, *Aleurodicus rugioperculatus* martin (Hemiptera: Aleyrodidae) in Andhra Pradesh. Pest Management in Horticultural Ecosystems. 26 (1):109-120

S.Sushmitha, A.Sujatha and N.Emmanuel. 2020. Impact of weather parameters on rugose spiraling white fly, *Aleurodicus rugioperculatus* and its natural enemies. Journal of Entomology and Zoology studies. 8(6):726-730.

P.Sunitha, A.Sujatha and G.Krishna Rao. 2020. Diversity and Potentiality of Lepidopterous borer pests on Mango and Sapota in Andhra Pradesh. Journal of Applied Zoological Researches. 31 (2):137-148

Phone-in-Programs under Farmers Advisory Cell of Dr YSRHU

Dr YSRHU-Farmers Advisory Cell organized following Phone-in-Programs during first fortnight of December (3-4 PM).

Date	Activities
01.12.2020	Mango Orchard Management during flowering and Fruiting Stage Dr.R.Nagaraju, Principal Scientist & Head, HRS, Anantharajupeta
02.12.2020	Best Practices in Pomegranate Cultivation Dr.B.Srinivasulu, Associate Dean, CoH, Anantharajupeta
03.12.2020	Pest and Disease Management in Onion Shri G.Sandeep Naik, Scientist & Head, KVK, Vonipenta
04.12.2020	Disease Management in Mango during Flowering and Fruiting Stage Dr.B.K.M.Lakshmi, Sr.Scientist & Head, MRS, Nuzvid
05.12.2020	Disease Management in Milch Animals Dr.T.Vijaya Nirmala, Scientist, KVK, Venkataramannagudem
07.12.2020	Coconut Pest Management through Bio-control Methods Dr.N.B.V.Chalapathi Rao, Principal Scientist, HRS, Ambajipeta
08.12.2020	Postharvest Management in Tuber Crops Dr.K.Mamatha, Sr.Scientist, HRS, Kovvur
09.12.2020	Good Management Practices in Mango Dr.R.Rajya Lakshmi, Sr.Scientist, MRS, Nuzvid
10.12.2020	Disease Management in Chilli Smt.T.Vijaya Lakshmi, Sr.Scientist, HRS, Lam
11.12.2020	Management during Flowering and Fruiting in Citrus Dr.L.Mukundalakshmi, Sr.Scientist, CRS, Tirupati
14.12.2020	Scientific Practices in Coconut Cultivation Dr.B.V.K.Bhagawan, Principal Scientist & Head, HRS, Ambajipeta
15.12.2020	Pest and Disease Management in Cashew Dr.B.Nagendra Reddy, Scientist, CRS, Bapatla



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